

Claims

10. (Further Amended) A pipe joint made of resin, comprising:

a sleeve-like inner ring which is to be pressingly inserted into one end portion of a pipe member to be integrated with said pipe member under a state where said inner ring is ~~outward protruded~~ protrudes outwardly in an axial direction from one end portion of said pipe member;

a joint body in which a cylindrical receiving port is formed in one end portion, an insertion portion of said pipe member into which said inner ring is pressingly inserted, being inserted into said receiving port; and

a pressing ring which is to be screwed to said one end portion of said joint body, presses said inner ring from an outer side of said pipe member by means of screw advancement toward said one end portion of said joint body, to cause a projected tip end portion of said inner ring to abut against an inner area of said receiving port of said joint body, thereby forming a sealing portion, wherein:

said inner ring defines an outer, axially extending surface and said receiving port defines an inner, axially extending surface, both said outer, axially extending surface and said inner, axially extending surface define a gap between them for at least part of said axially length, such that only said outer, axially extending surface engages a corresponding surface of the pipe member to thereby reduce the extent of said gap,

an inner radial face of said projected tip end portion of said outer, axially extending surface of said inner ring is formed as a conical tapered face in which a diameter is larger when further moving toward an outer side in the axial direction of said inner ring,

a cylindrical groove is formed in an inner area of said receiving port of said joint body, said projected tip end portion of said inner ring including said conical tapered face being fitted in the axial direction in said cylindrical groove, and said cylindrical groove cooperates with said conical tapered face to form a secondary sealing portion, and with a place on a side of an outer radial face of said projected tip end portion to form a primary sealing portion,

the inclination angle of said conical tapered face of said projected tip end portion of said inner ring with respect to the axis is set to 5 to 20°, and

a cylindrical portion which abuts against an inner peripheral face of a cylindrical portion on an inner radial side of said cylindrical groove of said joint body is formed integrally with an inner radial side of said projected tip end portion of said inner ring, an outer peripheral face of said cylindrical portion abutting against said inner peripheral face of said cylindrical portion on said inner radial side to form a tertiary sealing portion.

4. (Previously Amended) A pipe joint made of resin according to claim 10, wherein one or plural projections which are projected in a radially outward direction and abut against an inner peripheral face of said receiving port of said joint body to form said sealing portion are disposed on said outer radial face of said projected tip end portion of said inner ring.

6. (Previously Amended) A pipe joint made of resin according to claim 10, wherein said outer radial face of said projected tip end portion of said inner ring is formed as a conical tapered face in which a diameter is smaller as further moving toward an outer side in the axial direction.

7. (Previously Amended) A pipe joint made of resin according to claim 4, wherein said outer radial face of said projected tip end portion of said inner ring on which said projections are formed is formed as a conical tapered face in which a diameter is smaller as further moving